

3/19/58
1:30

Screening
only - JG

CONFIDENTIAL

File: ASA, Type. Mon.

12 056 030750 010936
S 56 01
22 3 2010

CONFIDENTIAL

25X1

March 14, 1958

Dear Sir:

This is the first letter report under Task Order No. U and it summarizes the work performed during February, 1958.

The objective of this program is to develop further the experimental decoder unit evolved under Research Order No. 28 and Work Order No. IV, particularly with regard to reliability, miniaturization, mobility, and ease of operation.

The effort conducted thus far has included modification of the present circuitry to provide added stability and more reliable operation. A modified method of comparison has been devised. This modification eliminates the need for d-c amplification in the comparator. Thus, periodic adjustments to the device made necessary by the previous use of d-c amplification will no longer be required; also, adequate circuit stability is more easily achieved. Tests have been made of the modified comparison method, and satisfactory results were obtained. The changes necessary to provide for this comparison method will be incorporated in the final design of the decoder.

Future work will include further circuit refinement and simplification. It is expected that a meeting will be held in the near future with you and representatives of the organization

~~CONFIDENTIAL~~

March 14, 1958

handling the development of the transmitter-receiver unit. Certain circuit modifications which we propose to make involve consideration of compatibility with the other parts of the system. The compatibility of these proposed modifications will be established at that meeting. Then, the appropriate circuit details will be worked out, and suitable components will be ordered.

The original appropriation under this Task Order was \$10,218. As of March 1, 1958, the unexpended balance was approximately \$8,000.

Sincerely,



25X1

ABW:mjc

In Duplicate

~~CONFIDENTIAL~~